

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph M. Jacobson *et al.*

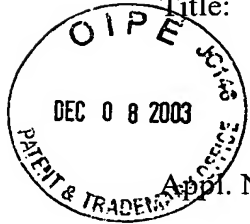
Title: MOLECULAR ASSEMBLY
LINES, MEMORY, SHIFT
REGISTERS, AND BI-STABLE
SWITCHES

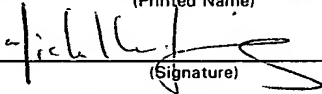
App. No.: 10/622,126

Filing Date: 07/17/2003

Examiner: Unknown

Art Unit: 2818



<p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the date below.</p> <p align="center">Michelle Manning (Printed Name)</p> <p align="center"> (Signature)</p> <p align="center">December 3, 2003 (Date of Deposit)</p>

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Missing Parts
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Applicants believe there is no fee for this filing. However, the Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-2350. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-2350.

Respectfully submitted,

Date December 3, 2003

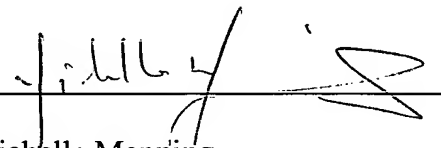
FOLEY & LARDNER

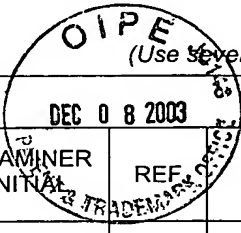
Customer Number: 23524

Telephone: (608) 258-4305

Facsimile: (608) 258-4258

By


Michelle Manning
Attorney for Applicant
Registration No. 50,592

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 034474-0106		SERIAL NO. 10/622,126	
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT Joseph M. Jacobson et al.			
				FILING DATE 07/17/2003		GROUP ART UNIT 2818	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Asanuma, H. et al., "Photo-responsive oligonucleotides carrying azobenzene at the 2'-position of uridine," <i>Tetrahedron Letters</i> , Vol. 40, pp. 7995-7998, 1999; published by Elsevier Science Ltd.					
		Hamad-Schifferil, K. et al., "Remote electronic control of DNA hybridization through inductive coupling to an attached metal nanocrystal antenna," <i>Nature</i> , Vol. 415, pp. 152-155, 10 January 2002; published by Macmillan Magazines Ltd.					
		Hess, H. et al., "Light-Controlled Molecular Shuttles Made from Motor Proteins Carrying Cargo on Engineered Surfaces," <i>Nano Letters</i> , Vol. 1, No. 5, pp. 235-239, 2001; published by American Chemical Society.					
		Hopfield, J. J. et al., "Electronic Shift Register Memory Based on Molecular Electron-Transfer Reactions," <i>J. Phys. Chem.</i> , Vol. 93, pp. 6350-6357, 1989; published by American Chemical Society.					
		Stubbs, L. P. et al., "Towards a Universal Polymer Backbone: Design and Synthesis of Polymeric Scaffolds Containing Terminal Hydrogen-Bonding Recognition Motifs at Each Repeating Unit," <i>Chem. Eur. J.</i> , Vol. 9, No. 4, pp. 992-999, 2003; published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.					
		Walsh, C. T. et al., "Tailoring enzymes that modify nonribosomal peptides during and after chain elongation on NRPS assembly lines," <i>Current Opinion in Chemical Biology</i> , Vol. 5, pp. 525-534, 2001; published by Elsevier Science Ltd.					
		Winkler, J. R. et al., "Rapid electron injection into multisite metalloproteins: intramolecular electron transfer in cytochrome oxidase," <i>Biophysical Chemistry</i> , Vol. 54, pp. 199-209, 1995; published by Elsevier Science B.V.					
		The Center for Bits and Atoms, NSF Annual Report, CCR-0122419 (Massachusetts Institute of Technology, 2003); available at http://cba.media.mit.edu/docs/03.06.NSF/ .					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consider d. Include any copy of this form with next communication to applicant.							